



PRODUCT SPECIFICATIONS FOR C18 (50 HZ)



TST CO.

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GENERATOR SET SPECIFICATIONS

Minimum Rating	550 kVA
Maximum Rating	715 kVA
Emissions/Fuel Strategy	Low Fuel, China Nonroad III Emis Stds
Voltage	380 to 415 Volts
Frequency	50 Hz
Speed	1500 rpm
Duty Cycle	Standby, Prime

ENGINE SPECIFICATIONS

Engine Model	C18 ATAAC, I-6, 4-Stroke Water-Cooled Diesel
Bore	145 mm
Stroke	183 mm
Displacement	18.13 l
Compression Ratio	14.5:1
Aspiration	Air to Air Aftercooled
Fuel System	Electronic unit injection
Governor Type	Adema, çA4

GENERATOR SET DIMENSIONS

Length - Maximum	4135 mm
Width - Maximum	1989 mm
Height - Maximum	1906 mm

C18 (50 HZ) STANDARD EQUIPMENT

AIR INLET SYSTEM

Turbocharger

Light duty air cleaner

Aftercooler core

AIR INLET

Air Cleaner

CONTROL SYSTEM

EMCP 4.2

EXHAUST

Exhaust flange outlet

COOLING

Coolant drain line with valve

Caterpillar extended life coolant

Fan drive, battery charging alternator drive

Radiator and cooling fan with guard

EXHAUST SYSTEM

Stainless steel exhaust flex gaskets, raincap and SAE exhaust flange for customer use; shipped loose

FUEL

Secondary fuel filter

Fuel priming pump

Primary fuel filter with integral water separator

FUEL SYSTEM

Standard 8 hour open set fuel tank

GENERATOR

IP23 Protection

Load adjustment module provides engine relief upon load impact and improves load acceptance and recovery time

Matched to the performance and output characteristics of Cat engines

GENERATOR AND ATTACHMENTS

Segregated low voltage (AC/DC) wiring panel

Integrated Voltage Regulator

A frame generator - IP21 protection

Integrated Voltage Regulator

Mandatory Option circuit breaker, IEC, 3 pole, mounted in power centre

Power center, IP22

Matched to the performance and output characteristics of Cat engines

POWER TERMINATION

Bus Bar

GOVERNING SYSTEM

Cat Electronic Governor (ADEM A4)

CONTROL PANEL

EMCP 4 Genset Controller

LUBE SYSTEM

Lubricating oil

Oil drain valves

MOUNTING

Rubber vibration isolators

MOUNTING SYSTEM

Captive linear vibration isolators between base and engine-generator. includes lifting provisions and termination points for coolant and lube oil drain lines

STARTING/CHARGING

24 Volt battery with rack and cables

GENERAL

Engine and alternator pre-paint, Caterpillar yellow

C18 (50 HZ) OPTIONAL EQUIPMENT

EXHAUST

Industrial, Residential, Critical Mufflers

AIR INLET SYSTEM

Dual element air cleaner

Single element air cleaner

CIRCUIT BREAKERS

3 Pole (IEC-100% rated) circuit breakers - Motorised

4 Pole (IEC-100% rated) circuit breakers - Motorised

Circuit breaker (IEC) auxiliary contacts

Pad-lockable circuit breaker device

3 Pole (IEC-100% rated) circuit breakers - Package mounted

4 Pole (IEC-100% rated) circuit breakers - Package mounted

Power terminal strip

Shunt trip for IEC breaker

GENERATOR

Anti-condensation heater

Excitation: []Permanent Magnet Excited (PM) []Internally Excited (IE)

Oversize and premium generators

POWER TERMINATION

Circuit breakers, IEC compliant

Circuit breakers, UL listed

CONTROL PANELS

Local & remote annunciator modules

Load share module

Remote monitoring software

EMCP (4.2) (4.3) (4.4)

Digital I/O module

CONTROL SYSTEM

Oil temperature displays

EMCP 4.4

Volt free contact

Protective devices: Earth fault relay - earth leakage ground fault relay - Overload shutdown via breaker - Low fuel level alarm - Low fuel level shutdown - high fuel level alarm - Fuel level sensor

Local alarm modules

Remote annunciator modules

Local alarm horn

COOLING SYSTEM

Low coolant temperature alarm

Radiator duct flange

STARTING/CHARGING

Oversize batteries

Jacket water heater

Battery chargers

Heavy-duty starting system

Charging alternator

ENCLOSURES

Sound attenuated enclosures

EXHAUST SYSTEM

Manifold and Turbocharger guard

Engine mounted muffler

8 and 10 inch elbow kits

8 and 10 inch GP flanges

10, 25 and 35 end in / end out Mufflers

FUEL SYSTEM

Integral - Dual wall fuel tank base

Manual fuel transfer pump

Fuel transfer system

GENERATOR AND ATTACHMENTS

GENERAL

- LC frame generator
- Permanent magnet excitation
- LC frame oversize generators
- Space heaters
- A frame oversize generator
- A frame CIP generator
- Ingress protection
- LC frame CIP generator

GENERAL

- Single or dual wall integral fuel tanks
- UL 2200 package
- Enclosures: sound attenuated, weather protective
- EU Certificate of Conformance (CE)
- Integral & sub-base UL listed dual wall fuel tanks
- Narrow, Wide or Skid Base

The following options are based on regional and product configuration:

- Seismic Certification per applicable building codes: IBC 2000, IBC 2003, IBC 2006, IBC 2009, CBC 2007
- EEC Declaration of Conformity
- CSA Certification
- Sound attenuated, weather protective or high ambient weather protective enclosure
- Automatic transfer switches (ATS)
- Single or dual wall sub-base fuel tanks

LUBE SYSTEM

- Manual sump pump

STARTING AND CHARGING

- Jacket water heaters
- 5 Amp battery charger

Battery disconnect switch